
Product Data Sheet

Product Name: AHSG Human
 Cat. No.: GP22693
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	PRO2743; A2HS; AHS; FETUA; HSGA; Alpha-2-HS-glycoprotein; Alpha-2-Z-globulin; Ba-alpha-2-glycoprotein; Fetuin-A.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSAPHGPGL IYRQPNCCDDP ETEEAALVAI DYINQNLPGW YKHTLNQIDE VKVWPQQPSG ELFEIEIDTL ETTCHVLDPT PVARCSVRQL KEHAVEGDCD FQLKLDGKF SVVYAKCDSS PDSAEDVRKV CQDCPLLAPL NDTRVVHAAK AALAAFNAQN NGSNFQLEEI SRAQLVPLPP STYVEFTVSG TDCVAKEATE AAKCNLLAEK QYGFCKATLS EKLGGAEVAV TCTVFQTQPV TSQPQPEGAN EAVPTPVVDP DAPPSPLGA PGLPPAGSPP DSHVLLAAPP GHQLHRAHYD LRHTFMGVVS LGSPSGEVSH PRKTRTVVQP SVGAAAGPVV PPCPGRIRHF KV.		
Formulation	AHSG protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol 0.1M NaCl and 1mM DTT.		

Introduction

AHSG (fetuin-A) which is a glycoprotein present in the serum, is synthesized by hepatocytes. AHSG is one of the fetuin class of plasma binding proteins. It is involved in a number of functions, such as endocytosis, brain development and the formation of bone tissue. It is usually present in the cortical plate of the immature cerebral cortex and bone marrow hemopoietic matrix, hence it has been postulated that it participates in the development of the tissues. Yet, its exact significance is still vague. AHSG promotes endocytosis, hold opsonic properties and influences the mineral phase of the bone. Affinity for calcium and barium ions has been shown.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

AHSG Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 372 amino acids (19-367 a.a) and having a molecular mass of 39.7kDa (Molecular size on SDS-PAGE will appear higher). AHSG is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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